Journal of Fluid Mechanics **Volume 373 25 October 1998**

I. Macfarlane, P. N. Joubert & T. B. Nickels Secondary flows and developing, turbulent boundary layers in a rotating duct *page* 1

M. V. Zagarola & A. J. Smits Mean-flow scaling of turbulent pipe flow 33

I. Veretennikov, A. Indeikina & H.-C. Chang Front dynamics and fingering of a driven contact line 81

O. S. Ryzhov & E. D. Terent'ev Streamwise absolute instability of a three-dimensional boundary layer at high Reynolds numbers 111

O. V. Atassi Analytical and numerical study of the nonlinear interaction between a point vortex and a wall-bounded shear layer 155

S. R. Subia, M. S. Ingber, L. A. Mondy, S. A. Altobelli & A. L. Graham Modelling of concentrated suspensions using a continuum constitutive equation 193

S. A. Theerthan & J. H. Arakeri A model for near-wall dynamics in turbulent Rayleigh–Bénard convection 221

J. Jiménez & A. A. Wray On the characteristics of vortex filaments in isotropic turbulence 255

C. K. Aidun, Y. Lu & E.-J. Ding Direct analysis of particulate suspensions with inertia using the discrete Boltzmann equation 287

C. R. Lodahl, B. M. Sumer & J. Fredsøe Turbulent combined oscillatory flow and current in a pipe 313

M. M. Weislogel & S. Lichter Capillary flow in an interior corner 349

CORRIGENDUM 379

BOOK REVIEW
Fluid Mechanics of Viscoelasticity, by R. R. Huilgol & N. Phan-Thien 380

INDEX TO VOLUME 373 382

Now Online
http://www.journals.cup.org

CAMBRIDGE
UNIVERSITY PRESS

JFLSA7 373 1–382 (1998) 0022–1120 © Cambridge University Press 0022-1120(199810)373;1-W